

ABSTRACT

5 The system can be used for the automatic analysis of
images (I), comprising a matrix of spots, such as
images of DNA microarrays after hybridisation. The
system can be associated - and preferably integrated in
a single monolithic component implementing VLSI CMOS
technology - to a sensor (10) for acquiring said images
10 (I). The system comprises a circuit (20) for processing
the signals corresponding to the images (I), configured
according to a cellular neural network (CNN)
architecture for the parallel analogue processing of
signals.
15 (Figure 2)